

IN THE CLAIMS:

Cancel claims 1-16 and insert new claims 17-31, attached hereto on separate sheets.

Please add the Abstract of the Disclosure attached hereto on a separate sheet.

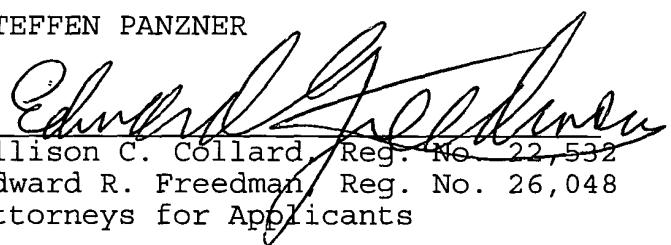
REMARKS

By this Preliminary Amendment, the application has been amended to conform with U.S. practice. The cross-reference to the related applications has been inserted on page 1. Original claims 1-16 are being replaced by new claims 17-31, identical to original claims 1-12 and 14-16, except the multiple dependency has been removed. No new matter has been introduced. In addition, an Abstract is being provided. Entry of this amendment is respectfully requested.

Respectfully submitted,

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Lisa L. Vulpis

Encls.: New claims; Abstract

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17. A method of producing nanocapsules having a diameter of from 50 nm to 10 μ m, diameter characterized in that liposomes are produced which are coated with a polymer P1 by binding the polymer P1 to the liposome surface in an aqueous solution, and the coated polymer P1 then is covalently crosslinked in an aqueous solution with a polymer P2 which is different from polymer P1, and additional polymer layers are optionally coated by crosslinking.
18. The method according to claim 17, characterized in that the liposomes are dissolved subsequent to crosslinking the polymers, preferably by leaching with a detergent.
19. The method according to claim 17, characterized in that liposomes are used as starting material which carry biologically active compounds or compounds of a detection system, which compounds remain in the nanocapsules when performing the method.
20. The method according to claim 17, characterized in that

those polymers are used as water-soluble polymers P1 and P2 which have amino, carboxyl, thiol, hydrazo, hydroxy, acidic hydrogen, aldehyde and/or active ester groups or combinations of these groups as functional groups, and which do not themselves undergo formation of micellar or vesicular structures.

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21. The method according to claim 17,
characterized in that
auxiliary agents are used to crosslink polymer P1 with the liposomes or polymer P1 with polymer P2.
22. The method according to claim 21,
characterized in that
isothiocyanates, isocyanates, acylazides, N-hydroxysuccinimide esters, sulfonyl chlorides, aldehydes, epoxides, carbonates, imidoesters, carbodiimides, anhydrides, haloacetyls, alkyl halides, maleimides, aziridines, pyridyldisulfides, diazoalkanes, diazoacetyls, carbonyldiimidazoles, N-hydroxysuccinimidylchloroformates, or compounds containing these functional groups in suitable combinations are used as auxiliary agents.
23. The method according to claim 17,
characterized in that
the water-soluble polymers P1 or P2 have chelating or chelate-binding properties.

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24. The method according to claim 17,
characterized in that
the polymers P1 and/or P2 are proteins.
25. The method according to claim 17,
characterized in that
the polymers P1 and/or P2 are carbohydrates.
26. The method according to claims 17,
characterized in that
the water-soluble polymers P1 and/or P2 are synthetic
polymers.
27. The method according to claim 17,
characterized in that
the nanocapsules obtained are modified at their sur-
face, preferably using poly(ethylene glycol), proteins,
peptides, or hormones, with poly(ethylene glycol) being
particularly preferred.
28. Nanocapsules, produced according to claims 17.
29. Nanocapsules having a diameter of from 50 nm to 10 μ m,
characterized in that
the coat layer thereof is comprised of at least two
different polymers P1 and P2 crosslinked with each
other.

30. Use of the nanocapsules according to claim 17 in the production of pharmaceutical formulations used in the application of active substances.

31. Use of the nanocapsules according to claim 17 in biochemical diagnostics.

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